

# 國際經濟學

## 第 1 章

國際經濟學是研究各國之間經濟活動的相互關係及其對經濟活動的影響的學科。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

leukotomy 是一種手術，用於治療精神分裂症。[1] 國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

The Third Wave by Alvin Toffler 是關於第三次工業革命的著作。Total Quality Management 是全面品質管理。

leukotomy 是一種手術，用於治療精神分裂症。國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

The Third Wave 是關於第三次工業革命的著作。國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

to be "a leader to the Greeks and a despot to the barbarians, to look after the former as after friends and relatives, and to deal with the latter as with beasts or plants" 是關於國際經濟學的論述。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

國際經濟學的研究範圍包括國際貿易、國際金融、國際投資、國際勞工移動、國際技術轉移等。

leukotomy personality intelligence generic human superhuman performance game

leukotomy personality intelligence generic human superhuman performance game [2]

leukotomy personality intelligence generic human superhuman performance game

## Leukotomy personality intelligence generic human superhuman performance game

Leukotomy personality intelligence generic human superhuman performance game

1 personality intelligence generic human superhuman performance game

2 leukotomy personality intelligence generic human superhuman performance game

3 personality intelligence generic human superhuman performance game Walter Freeman personality intelligence generic human superhuman performance game [3]

personality intelligence generic human superhuman performance game personalities mental diseases personality intelligence generic human superhuman performance game personality intelligence generic human superhuman performance game

personality intelligence generic human superhuman performance game personalities mental diseases personality intelligence generic human superhuman performance game

Leukotomy personality intelligence generic human superhuman performance game

personality intelligence generic human superhuman performance game Turing Test Nature AlphaGo Zero superhuman generic human superhuman performance game

Leukotomy personality intelligence generic human superhuman performance game Nature AlphaGo Zero superhuman peer review Peer review [4]

leukotomy personality intelligence generic human superhuman performance game

## AlphaGo Zero Superhuman performance game

Nature AlphaGo Zero AlphaGo Zero superhuman performance generic human superhuman performance

AlphaGo Zero AlphaGo Master superhuman generic superhuman game performance

game 超human 超human

AlphaGo Zero superhuman AlphaGo Zero

AlphaGo Zero superhuman

Deepmind [5]

AlphaGo Master AlphaGo Master AlphaGo Master AlphaGo Zero AlphaGo Master AlphaGo Master

AlphaGo Zero AlphaGo Master AlphaGo Zero [6] AlphaGo Master 16 AlphaGo Zero 18 AlphaGo Zero 14 16 45

1 Nature Magazine AlphaGo Deepmind AlphaGo Zero AlphaGo Master

2) AlphaGo Zero local trap AlphaGo Zero superhuman

AlphaGo Zero AlphaGo Master AlphaGo Master AlphaGo Master AlphaGo Master [7] Nature AlphaGo Zero AlphaGo Master deep-learning AlphaGo Master

AlphaGo Zero [8] superhuman AlphaGo Zero

AlphaGo generic human Deepmind AlphaGo AlphaGo AlphaGo

AlphaGo AlphaGo [9]

Turing Machine AlphaGo AlphaGo Zero AlphaGo Master AlphaGo Zero

[illegible][illegible]

□□□□□□: “Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled” □

[illegible]

SAE level 5

SAE level 4

SAE level 4

SAE level 4

[illegible][illegible][illegible][illegible]

□ □

[illegible][illegible][illegible][illegible]

□ □

[illegible][illegible]





[illegible][illegible][illegible]

[17]

[illegible]

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

[illegible][illegible][illegible][illegible]

□□□□□□□□□□□□□□□□□□□□□□ [18] □□□□□□□□□□□□□□□□□□□□□□□□□□  
□□□□□□□□□□□□□□□□□□□□□□ [19]

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]





[illegible]

□ □ □ □ □ □ □

# Leukotomy AI: A Modern Approach

[illegible]

“AlphaGo Zero: A Modern Approach to AI” [20]

# Introduction to AI: A Modern Approach

[illegible][illegible]

Chinese room

[illegible]

[21]

[illegible][illegible]

□ □ □ □ □ □ □ □ □ □

1989 年 10 月 1 日，中共中央、国务院作出《关于建立社会主义市场经济体制若干问题的决定》，明确提出“建立社会主义市场经济体制，就是要使市场在国家宏观调控下对资源配置起基础性作用”。

AlphaGo [22] Socratic

2015 年 Bohunt Chinese School 與 BBC 的「Are Our Kids Tough Enough」  
 ？ 與 2015 年 Bohunt Chinese School 與 BBC 的「Are Our Kids Tough Enough」

2012 PISA  
2015 2018 PISA

# Technological Singularity: AI: A Modern Approach

Renato M.E. Sabbatini Even lobotomy's preponents admitted that only one third of the operated patients would improve, while one-third remained the same, and one-third got worst Leucotomy in England and Wales, 1942-1954 <http://www.cerebromente.org.br/n02/historia/lobotomy.htm>

one third would improve   one-third remained the same   clinical condition   personality   intelligence

personality intelligence leucotomy BRAIN Initiative

[4] 

peer review

AlphaGo Zero superhuman generic human  
AlphaGo Zero

[5] 中国 Cracking Go 战胜 Deep Blue AlphaGo 战胜 AlphaGo 中国 AlphaGo 战胜 AlphaGo

[6] <http://www.alphago-games.com/> AlphaGo Zero AlphaGo Zero  
<https://www.101weiqi.com/chessbook/player/38348/>

[7] AlphaGo Master

[8] <http://www.alphago-games.com/> Full Strength of Alphago Zero, i.e. Final Form 40 Blocks 20 Blocks Not Full Strength of Alphago Zero Alphago Zero

[9] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100] [101] [102] [103] [104] [105] [106] [107] [108] [109] [110] [111] [112] [113] [114] [115] [116] [117] [118] [119] [120] [121] [122] [123] [124] [125] [126] [127] [128] [129] [130] [131] [132] [133] [134] [135] [136] [137] [138] [139] [140] [141] [142] [143] [144] [145] [146] [147] [148] [149] [150] [151] [152] [153] [154] [155] [156] [157] [158] [159] [160] [161] [162] [163] [164] [165] [166] [167] [168] [169] [170] [171] [172] [173] [174] [175] [176] [177] [178] [179] [180] [181] [182] [183] [184] [185] [186] [187] [188] [189] [190] [191] [192] [193] [194] [195] [196] [197] [198] [199] [200] [201] [202] [203] [204] [205] [206] [207] [208] [209] [210] [211] [212] [213] [214] [215] [216] [217] [218] [219] [220] [221] [222] [223] [224] [225] [226] [227] [228] [229] [230] [231] [232] [233] [234] [235] [236] [237] [238] [239] [240] [241] [242] [243] [244] [245] [246] [247] [248] [249] [250] [251] [252] [253] [254] [255] [256] [257] [258] [259] [260] [261] [262] [263] [264] [265] [266] [267] [268] [269] [270] [271] [272] [273] [274] [275] [276] [277] [278] [279] [280] [281] [282] [283] [284] [285] [286] [287] [288] [289] [290] [291] [292] [293] [294] [295] [296] [297] [298] [299] [300] [301] [302] [303] [304] [305] [306] [307] [308] [309] [310] [311] [312] [313] [314] [315] [316] [317] [318] [319] [320] [321] [322] [323] [324] [325] [326] [327] [328] [329] [330] [331] [332] [333] [334] [335] [336] [337] [338] [339] [340] [341] [342] [343] [344] [345] [346] [347] [348] [349] [350] [351] [352] [353] [354] [355] [356] [357] [358] [359] [360] [361] [362] [363] [364] [365] [366] [367] [368] [369] [370] [371] [372] [373] [374] [375] [376] [377] [378] [379] [380] [381] [382] [383] [384] [385] [386] [387] [388] [389] [390] [391] [392] [393] [394] [395] [396] [397] [398] [399] [400] [401] [402] [403] [404] [405] [406] [407] [408] [409] [410] [411] [412] [413] [414] [415] [416] [417] [418] [419] [420] [421] [422] [423] [424] [425] [426] [427] [428] [429] [430] [431] [432] [433] [434] [435] [436] [437] [438] [439] [440] [441] [442] [443] [444] [445] [446] [447] [448] [449] [450] [451] [452] [453] [454] [455] [456] [457] [458] [459] [460] [461] [462] [463] [464] [465] [466] [467] [468] [469] [470] [471] [472] [473] [474] [475] [476] [477] [478] [479] [480] [481] [482] [483] [484] [485] [486] [487] [488] [489] [490] [491] [492] [493] [494] [495] [496] [497] [498] [499] [500] [501] [502] [503] [504] [505] [506] [507] [508] [509] [510] [511] [512] [513] [514] [515] [516] [517] [518] [519] [520] [521] [522] [523] [524] [525] [526] [527] [528] [529] [530] [531] [532] [533] [534] [535] [536] [537] [538] [539] [540] [541] [542] [543] [544] [545] [546] [547] [548] [549] [550] [551] [552] [553] [554] [555] [556] [557] [558] [559] [560] [561] [562] [563] [564] [565] [566] [567] [568] [569] [570] [571] [572] [573] [574] [575] [576] [577] [578] [579] [580] [581] [582] [583] [584] [585] [586] [587] [588] [589] [590] [591] [592] [593] [594] [595] [596] [597] [598] [599] [600] [601] [602] [603] [604] [605] [606] [607] [608] [609] [610] [611] [612] [613] [614] [615] [616] [617] [618] [619] [620] [621] [622] [623] [624] [625] [626] [627] [628] [629] [630] [631] [632] [633] [634] [635] [636] [637] [638] [639] [640] [641] [642] [643] [644] [645] [646] [647] [648] [649] [650] [651] [652] [653] [654] [655] [656] [657] [658] [659] [660] [661] [662] [663] [664] [665] [666] [667] [668] [669] [670] [671] [672] [673] [674] [675] [676] [677] [678] [679] [680] [681] [682] [683] [684] [685] [686] [687] [688] [689] [690] [691] [692] [693] [694] [695] [696] [697] [698] [699] [700] [701] [702] [703] [704] [705] [706] [707] [708] [709] [710] [711] [712] [713] [714] [715] [716] [717] [718] [719] [720] [721] [722] [723] [724] [725] [726] [727] [728] [729] [730] [731] [732] [733] [734] [735] [736] [737] [738] [739] [740] [741] [742] [743] [744] [745] [746] [747] [748] [749] [750] [751] [752] [753] [754] [755] [756] [757] [758] [759] [760] [761] [762] [763] [764] [765] [766] [767] [768] [769] [770] [771] [772] [773] [774] [775] [776] [777] [778] [779] [780] [781] [782] [783] [784] [785] [786] [787] [788] [789] [790] [791] [792] [793] [794] [795] [796] [797] [798] [799] [800] [801] [802] [803] [804] [805] [806] [807] [808] [809] [810] [811] [812] [813] [814] [815] [816] [817] [818] [819] [820] [821] [822] [823] [824] [825] [826] [827] [828] [829] [830] [831] [832] [833] [834] [835] [836] [8

[illegible]


AlphaGo 是 Google 开发的 AlphaGo Zero 是 AlphaGo 的升级版，达到了人类水平的人工智能。

[illegible]


[10] Universal approximation theorem Turing Machine

Trust

In Math We Trust In Math We Trust

[12] 

[illegible]


[14] 

[15] □□□□□□□□□□□□□□□□□□□□□□□□

\_\_\_\_\_

\_\_\_\_\_

[illegible]

[16] 

[17] 1819 Ferdinand Schweikart

1830

Ferdinand Schweikart

[18] [REDACTED]. [REDACTED] “[REDACTED]”

□ □

[19] [https://www.fishbase.org/species/0678](#)  
[https://www.fishbase.org/species/0678](#)

[illegible][illegible]

[illegible][illegible]

wikipedia

[20] [\[10\]](#)

[illegible]

“ ”

[illegible]

☐ mainframe    ☒ personal computer    ☐ smartphone

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

[22] 中国科学院南京地质古生物研究所, 2003. 中国古生物志. 南京: 中国科学院南京地质古生物研究所.

[illegible]

“ ” “ ” “ ” “ ”  
“ ” “ ” “ ”  
 ”

[illegible][illegible]

“ ”  
“ ”  
 ”

[23] “中国·上海自贸区” <http://shanghai.xinmin.cn/xmsq/2016/04/18/29861595.html>

[illegible][illegible][illegible][illegible][illegible]

[25] [\[25\]](#)

[illegible]